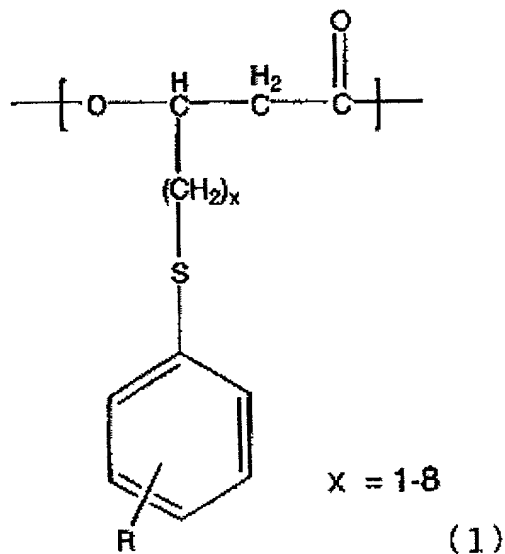


ABSTRACT OF THE DISCLOSURE

A polyhydroxyalkanoate is disclosed which has in the molecule a unit represented by Chemical Formula (1).



wherein R is arbitrarily selected from a hydrogen atom, a halogen atom, CN, NO₂, COOR', SO₂R'', CH₃, C₂H₅, C₃H₇, C(CH₃)₂H and C(CH₃)₃; where R' is H, Na, K, CH₃ or C₂H₅, and R'' is OH, ONa, OK, a halogen atom, OCH₃ or OC₂H₅; and x is an integer arbitrarily selected from 1 to 8; with the proviso that a polyhydroxyalkanoate is excluded which has a hydrogen atom as R and x in all the units is 2 or 4. Also disclosed is a process for producing the polyhydroxyalkanoate by the use of a microorganism having the ability to produce the polyhydroxyalkanoate and accumulate it in the bacterial body.